

CUSTOMER NO.: 24498**Serial No. 10/584,646**

Response to First Office Action dated 7/24/08

Response dated: 9/29/08

PATENT**PD040004****Amendments to the Claims**

Please add claims 10-17.

Please cancel claims 2 and 7 without prejudice.

Please amend claims 1, 3, 5-6 and 9 as follows:

RECEIVED
CENTRAL FAX CENTER
SEP 30 2008

1. (Currently Amended) An apparatus for reading from and/or writing to at least a first and a second type of optical recording media, including comprising:

a) means for performing a focus search cycle for the first type of optical recording medium, ~~the means being adapted to provide with~~ a focus error signal and a data signal,

b) means for comparing the focus error signal and the data signal to respective thresholds and for ~~emitting a signal indicative of~~ indicating the presence of an optical recording medium,

c) means for detecting a focal zero crossing based on the focus error signal, and

d) means for adapting settings to an operation mode for the second type of optical recording medium in case the data signal does not have a given relation to the respective threshold near the focal zero crossing, which distinguishes between a high reflectivity optical recording medium and a low reflectivity optical recording medium.

2. (Cancelled)

3. (Currently Amended) The apparatus of claim 1 [[2]], wherein the switching to the second type of optical recording medium is performed before the completion of a focus search cycle.

4. (Original) The apparatus of claim 1, further including a first amplifier for a servo path signal and a second amplifier for a data path signal.

CUSTOMER NO.: 24498**Serial No. 10/584,646**

Response to First Office Action dated 7/24/08

Response dated: 9/29/08

**PATENT
PD040004**

5. (Currently Amended) The apparatus of claim 1 ~~[[2]]~~, wherein the indication that a low-reflectivity medium is loaded into the device causes the current search cycle with settings for a high-reflectivity medium to be abbreviated and to be continued with settings for a low-reflectivity medium.

6. (Currently Amended) A method for distinguishing between at least a first and a second type of optical recording media, ~~including~~ comprising:

- a) performing a focus search cycle for the first type of optical recording medium, whereby a focus error signal and a data signal are provided,
- b) comparing the focus error signal and the data signal to respective thresholds and ~~emitting a signal indicative of~~ indicating the presence of an optical recording medium,
- c) detecting a focal zero crossing based on the focus error signal, and
- d) adapting settings to an operation mode for the second type of optical recording medium in case the data signal does not have a given relation to the respective threshold near the focal zero crossing, which distinguishes between a high reflectivity optical recording medium and a low reflectivity optical recording medium.

7. (Cancelled)

8. (Original) The method of claim 6, further including the step of using an algorithm in order to distinguish between the types of optical recording media based on the signal relationship.

9. (Currently Amended) The method of claim 8, wherein the algorithm is designed to ~~perform calculations resulting in distinguishing between the types of optical recording media~~ adapt settings to an operation mode for the second type of optical recording medium in a single focus search cycle.

CUSTOMER NO.: 24498**Serial No. 10/584,646**

Response to First Office Action dated 7/24/08

Response dated: 9/29/08

**PATENT
PD040004**

10. (New) A method for distinguishing between at least a first and a second type of optical recording media, comprising:

- a) performing a focus search cycle for the first type of optical recording medium, whereby a focus error signal and a data signal are provided,
- b) comparing the focus error signal and the data signal to respective thresholds and indicating the presence of an optical recording medium,
- c) detecting a focal zero crossing based on the focus error signal, and
- d) adapting settings to an operation mode for the second type of optical recording medium before the completion of a focus search cycle in case the data signal does not have a given relation to the respective threshold near the focal zero crossing.

11. (New) The method of claim 10, wherein the first type of optical recording medium to be distinguished is a high-reflectivity medium and the second type of optical recording medium is a low-reflectivity medium.

12. (New) The method of claim 10, further including the step of using an algorithm in order to distinguish between the types of optical recording media based on the signal relationship.

13. (New) An apparatus for reading from and/or writing to at least a first and a second type of optical recording media, comprising:

- a) means for performing a focus search cycle for the first type of optical recording medium with a focus error signal and a data signal,
- b) means for comparing the focus error signal and the data signal to respective thresholds and for indicating of the presence of an optical recording medium,
- c) means for detecting a focal zero crossing based on the focus error signal, and

CUSTOMER NO.: 24498**Serial No. 10/584,646**

Response to First Office Action dated 7/24/08

Response dated: 9/29/08

**PATENT
PD040004**

d) means for adapting settings to an operation mode for the second type of optical recording medium before the completion of a focus search cycle in case the data signal does not have a given relation to the respective threshold near the focal zero crossing.

14. (New) The apparatus of claim 13, wherein the first type of optical recording medium to be distinguished is a high-reflectivity medium and the second type of optical recording medium is a low-reflectivity medium.

15. (New) The apparatus of claim 13, further including a first amplifier for a servo path signal and a second amplifier for a data path signal.

16. (New) The apparatus of claim 13, wherein the indication that a low-reflectivity medium is loaded into the device causes the current search cycle with settings for a high-reflectivity medium to be abbreviated and to be continued with settings for a low-reflectivity medium.

17. (New) An apparatus for reading from and/or writing to at least a first and a second type of optical recording media, comprising:

- a) means for performing a focus search cycle for the first type of optical recording medium with a focus error signal and a data signal,
- b) means for comparing the focus error signal and the data signal to respective thresholds and for indicating of the presence of an optical recording medium,
- c) means for detecting a focal zero crossing based on the focus error signal, and
- d) means for adapting settings to an operation mode for the second type of optical recording medium in case the data signal does not have a given relation to the respective threshold near the focal zero crossing, wherein a indication that a low-reflectivity medium is loaded into the device causes the current search cycle with

CUSTOMER NO.: 24498

Serial No. 10/584,646

Response to First Office Action dated 7/24/08

Response dated: 9/29/08

**PATENT
PD040004**

settings for a high-reflectivity medium to be abbreviated and to be continued with
settings for a low-reflectivity medium.